FIG. 1 PRIOR ART

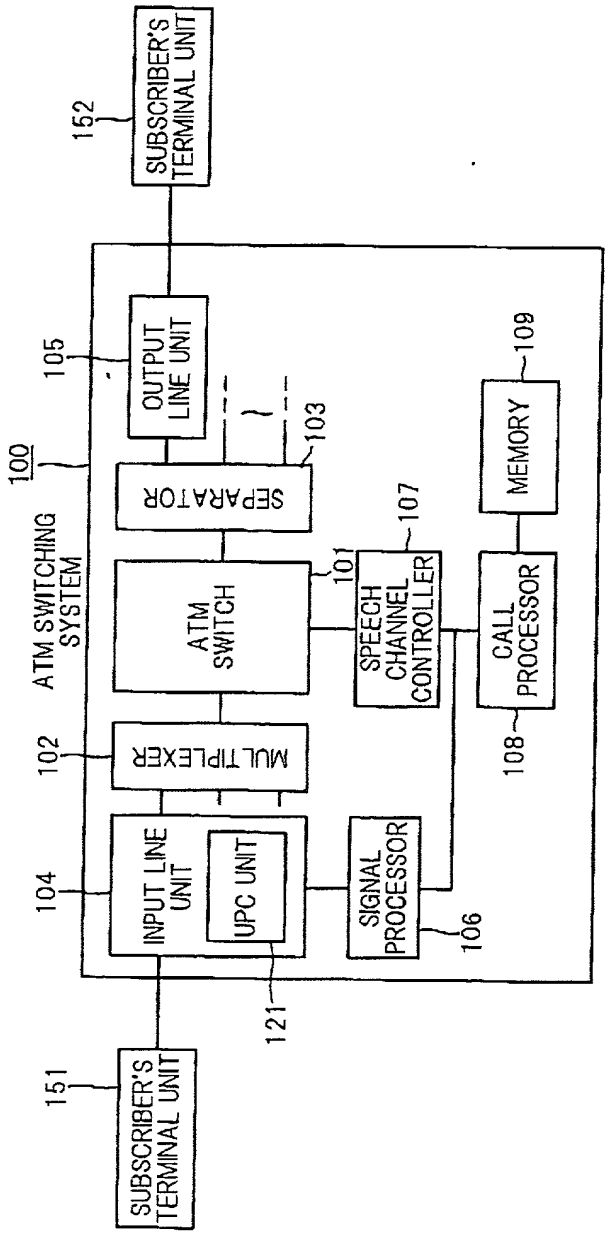

FIG. 2

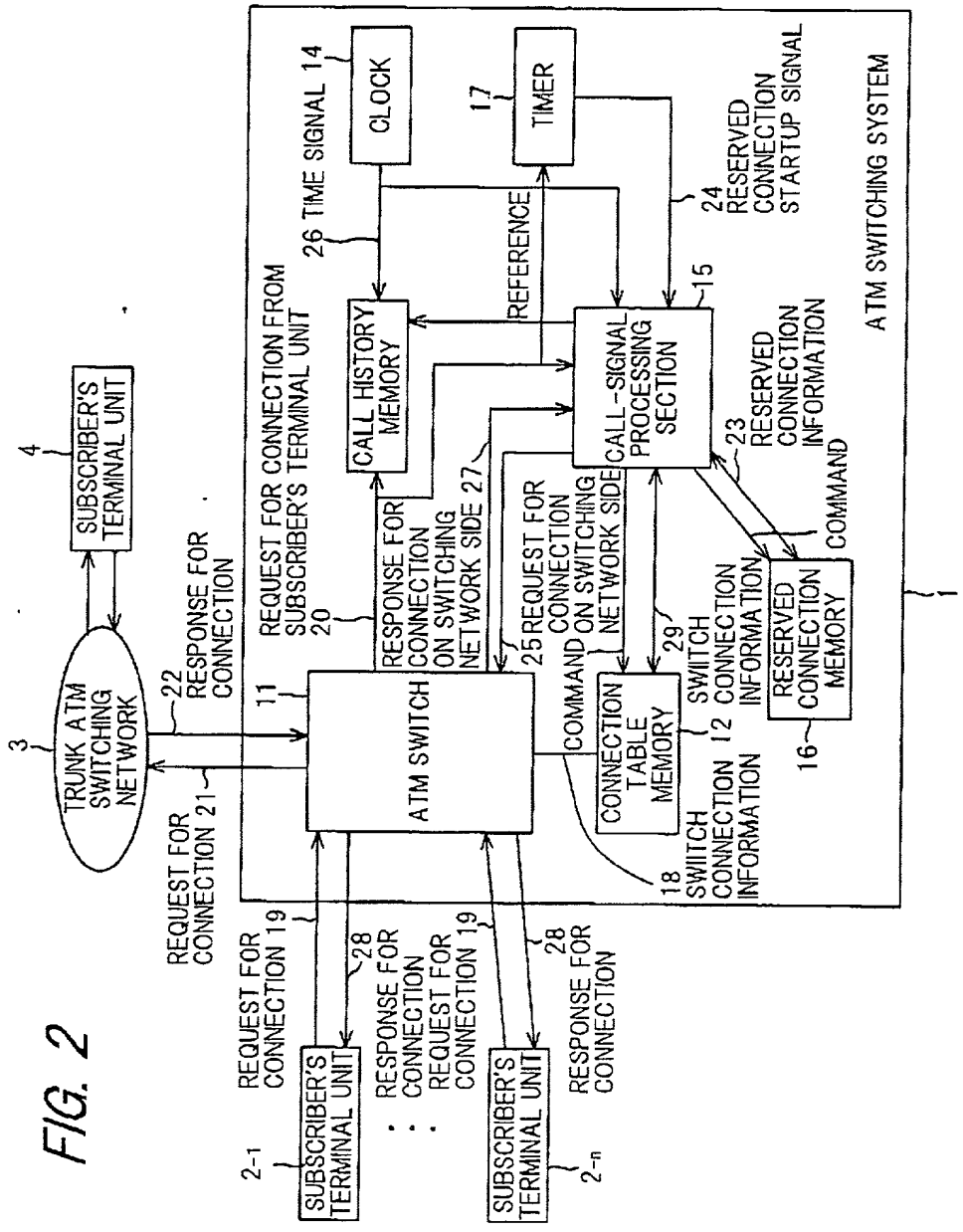
ATM SWITCHING SYSTEM
1
TRUNK ATM SWITCHING NETWORK
3
SUBSCRIBER'S TERMINAL UNIT
4
ATM SWITCH
11
CONNECTION TABLE MEMORY
12
RESERVED CONNECTION MEMORY
16
CLOCK
14
TIMER
17
CALL-SIGNAL PROCESSING SECTION
15
CALL HISTORY MEMORY
REQUEST FOR CONNECTION FROM SUBSCRIBER'S TERMINAL UNIT
20
RESPONSE FOR CONNECTION ON SWITCHING NETWORK SIDE
27
REQUEST FOR CONNECTION ON SWITCHING NETWORK SIDE
25
COMMAND
SWITCH CONNECTION INFORMATION
29
SWITCH CONNECTION INFORMATION
18
RESERVED CONNECTION INFORMATION
23
RESERVED CONNECTION STARTUP SIGNAL
24
TIME SIGNAL
26
REFERENCE
RESPONSE FOR CONNECTION
22
REQUEST FOR CONNECTION
21
REQUEST FOR CONNECTION
19
RESPONSE FOR CONNECTION
28
SUBSCRIBER'S TERMINAL UNIT
2-1
SUBSCRIBER'S TERMINAL UNIT
2-n

FIG. 3

	INPUT SIDE		OUTPUT SIDE	
	TRANSMISSION PATH	(VPI, VCI)	TRANSMISSION PATH	(VPI, VCI)
ELEMENT1	SUBSCRIBER'S TERMINAL UNIT 2-1	(0, 32)	SWITCHING NETWORK 3	(0, 32)
ELEMENT2	SUBSCRIBER'S TERMINAL UNIT 2-2	(0, 32)	SWITCHING NETWORK 3	(0, 32)
⋮	⋮	⋮	⋮	⋮
ELEMENTn	SUBSCRIBER'S TERMINAL UNIT 2-n			

FIG. 4

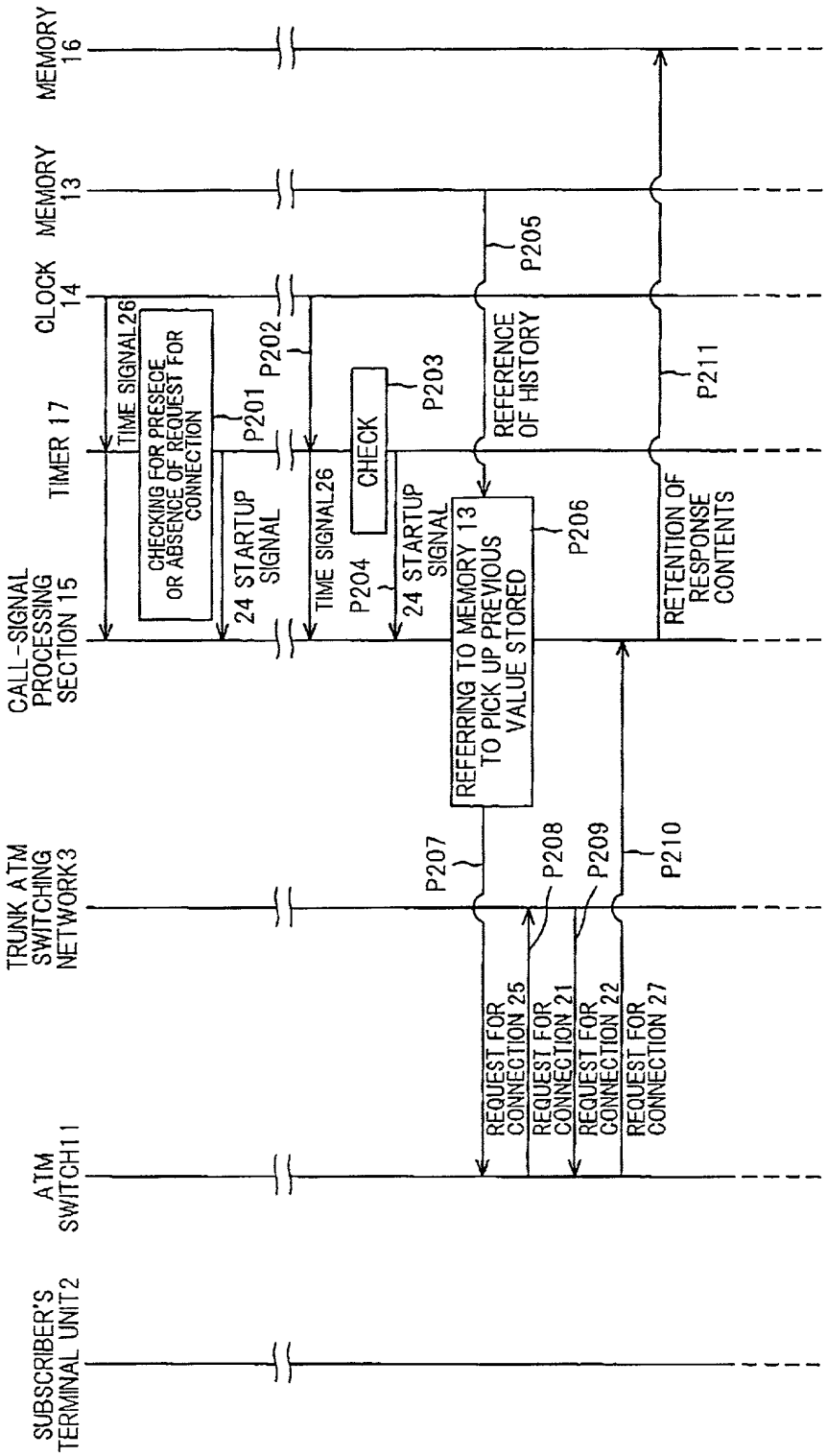
SUBSCRIBER'S TERMINAL UNIT2
ATM SWITCH11
TRUNK ATM SWITCHING NETWORK3
CALL-SIGNAL PROCESSING SECTION 15
TIMER 17
CLOCK 14
MEMORY 13
MEMORY 16
REQUEST FOR CONNECTION 25
REQUEST FOR CONNECTION 21
REQUEST FOR CONNECTION 22
REQUEST FOR CONNECTION 27
P207
P208
P209
P210
REFERRING TO MEMORY 13 TO PICK UP PREVIOUS VALUE STORED
P206
24 STARTUP SIGNAL
P204
TIME SIGNAL26
CHECK
P203
P202
CHECKING FOR PRESECE OR ABSENCE OF REQUEST FOR CONNECTION
P201
TIME SIGNAL26
24 STARTUP SIGNAL
REFERENCE OF HISTORY
P205
P211
RETENTION OF RESPONSE CONTENTS

FIG. 5

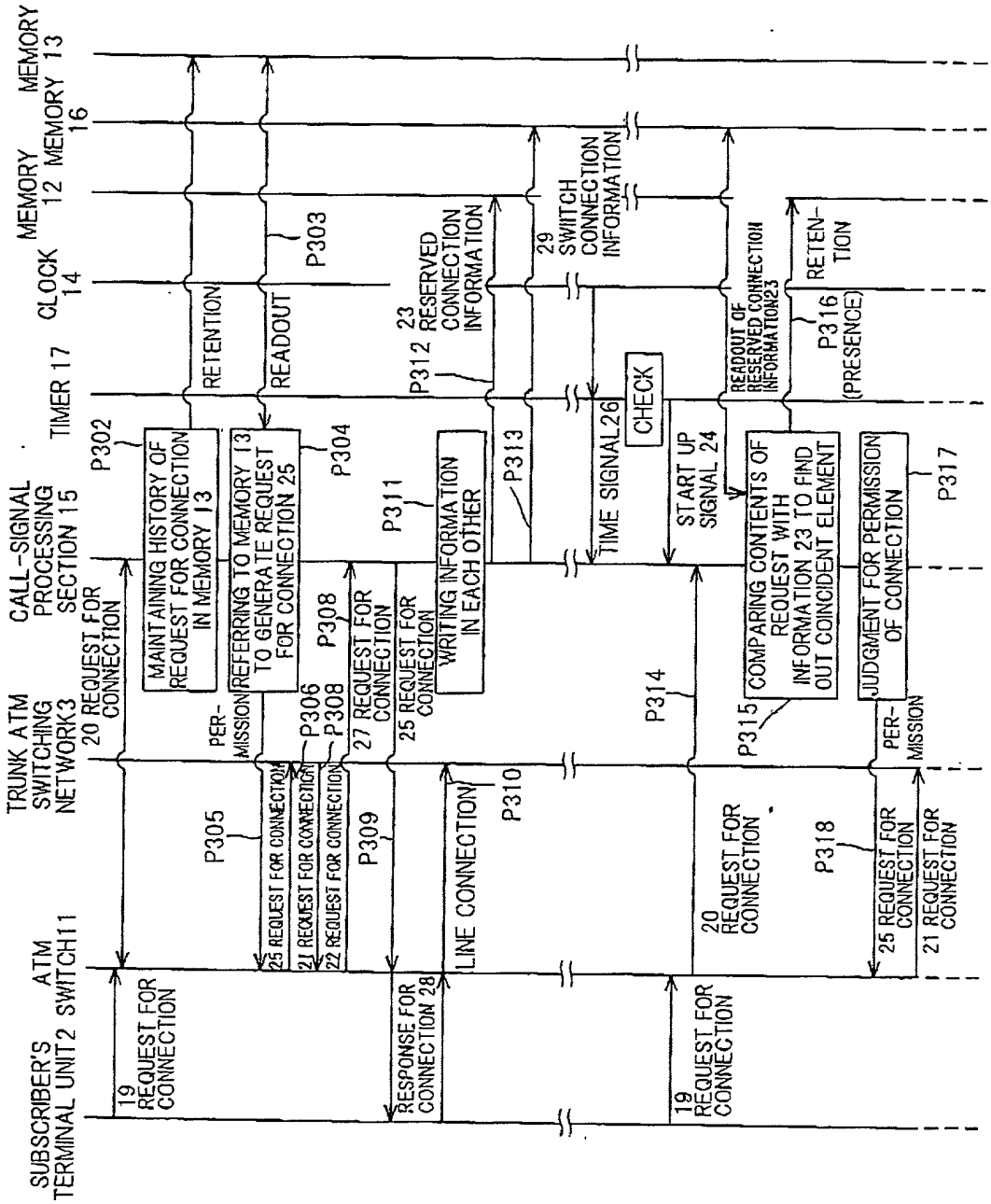
SUBSCRIBER'S TERMINAL UNIT2
ATM SWITCH11
TRUNK ATM SWITCHING NETWORK3
CALL-SIGNAL PROCESSING SECTION 15
TIMER 17
CLOCK 14
MEMORY 12
MEMORY 16
MEMORY 13
19 REQUEST FOR CONNECTION
20 REQUEST FOR CONNECTION
MAINTAINING HISTORY OF REQUEST FOR CONNECTION IN MEMORY 13
RETENTION
READOUT
REFERRING TO MEMORY 13 TO GENERATE REQUEST FOR CONNECTION 25
PER-MISSION
P302
P303
P304
P305
P306
P308
P309
P310
P311
P312
P313
P314
P315
P316
P317
P318
25 REQUEST FOR CONNECTION
21 REQUEST FOR CONNECTION
22 REQUEST FOR CONNECTION
27 REQUEST FOR CONNECTION
25 REQUEST FOR CONNECTION
WRITING INFORMATION IN EACH OTHER
23 RESERVED CONNECTION INFORMATION
29 SWITCH CONNECTION INFORMATION
TIME SIGNAL26
CHECK
START UP SIGNAL 24
READOUT OF RESERVED CONNECTION INFORMATION23
COMPARING CONTENTS OF REQUEST WITH INFORMATION 23 TO FIND OUT COINCIDENT ELEMENT
RETEN-TION
(PRESENCE)
JUDGMENT FOR PERMISSION OF CONNECTION
PER-MISSION
RESPONSE FOR CONNECTION 28
LINE CONNECTION
19 REQUEST FOR CONNECTION
20 REQUEST FOR CONNECTION
25 REQUEST FOR CONNECTION
21 REQUEST FOR CONNECTION

FIG. 6

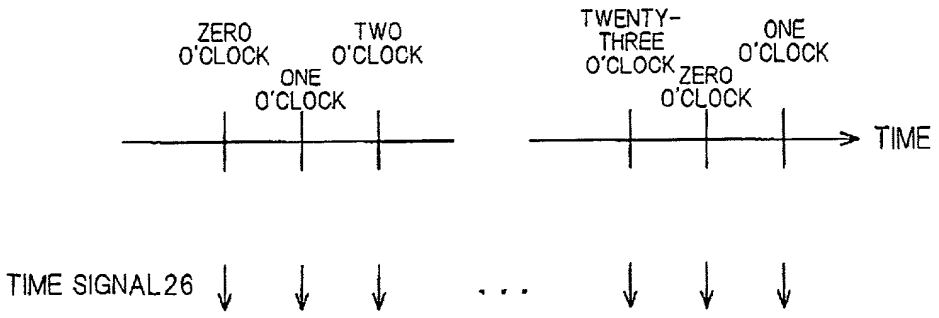
ZERO O'CLOCK
ONE O'CLOCK
TWO O'CLOCK
TWENTY-THREE O'CLOCK
ZERO O'CLOCK
ONE O'CLOCK
TIME
TIME SIGNAL 26

FIG. 7

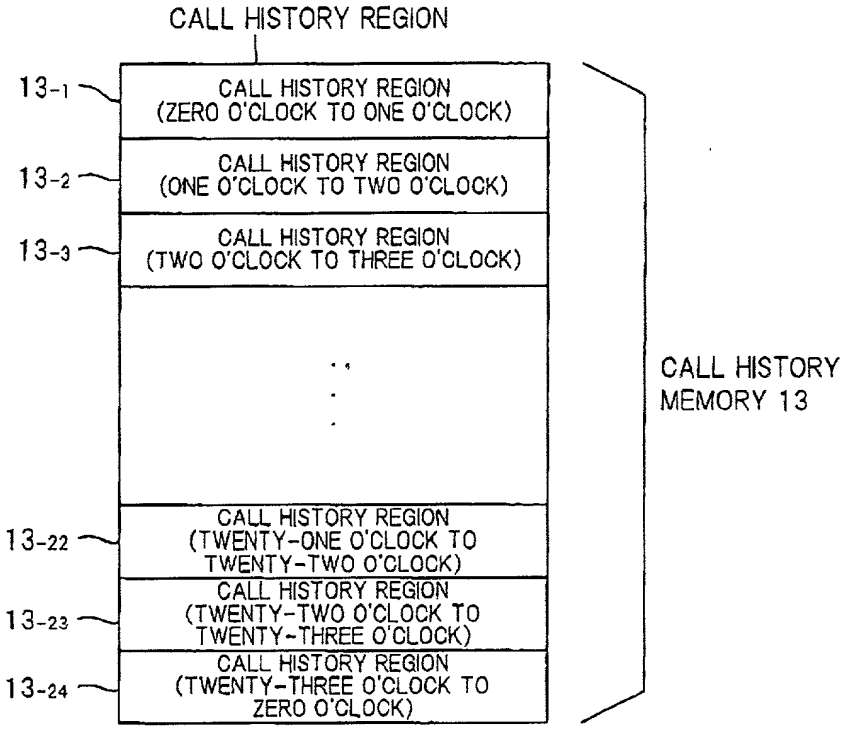

FIG. 8

	CALL TERMINAL	THE OTHER END SUBSCRIBER'S TERMINAL	ZONE	TRAFFIC TYPE
ELEMENT1	SUBSCRIBER'S TERMINAL UNIT2-1	SUBSCRIBER'S TERMINAL UNIT4	64kbps	CBR
ELEMENT2	SUBSCRIBER'S TERMINAL UNIT2-2	SUBSCRIBER'S TERMINAL UNIT4	128Kbps	VBR
ELEMENTn				